

Chris Harvey

From: Claire Hoque [claire.hoque@ccsemc.com]
Sent: Friday, October 20, 2006 8:07 PM
To: Chris Harvey; Chris Harvey -TCB
Cc: Erica Yueh; Michael Heckrotte
Subject: answer: 06U10518 TCB questions(4.9GHz portion): Proxim Wireless Corporation, FCC ID: HZB-4900LR, Assessment NO.: AN06T6216, Notice#1

Attachments: 4900LR Schematic - Radios_3.5_0218.pdf; PRX9141 MPE Report rev2.pdf; 06U10518-1C FCC 90Y Report.pdf; Proxim Prof Installation 4900LR-r3.pdf; 4900LR Schematic - 4.9GHz.pdf



4900LR Schematic - Radios_3.5_0218.pdf; PRX9141 MPE Report rev2.pdf (3... 90Y Report.pdf... Installation 4900LR... 4.9GHz.pdf ...

Hi Chris,

Pls see answer below. Thanks.

Claire

-----Original Message-----

From: Chris Harvey
Sent: Friday, October 13, 2006 6:24 AM
To: Michael Heckrotte
Cc: Chris Harvey; Claire Hoque
Subject: Proxim Wireless Corporation, FCC ID: HZB-4900LR, Assessment NO.: AN06T6216, Notice#1

Dear Mike Heckrotte,

You are listed as the technical contact for the above referenced composite application. The following items need to be addressed for the 90 Subpart Y TNB portion application:

1. Please provide the Antenna Installation Manual referenced in the professional Installation exhibit.
<answer>pls see revised "Proxim Prof Installation 4900LR-r3" which has removed the reference to the Antenna Installation Manual.
2. The Schematics exhibit submitted for both the 2.4GHz and the 4.9GHz radio's consist of a single page labeled as 2.4GHz AMP. Please submit the complete RF Schematic Diagrams for both the 2.4GHz and the 4.9GHz radio devices.
<answer>pls see attached "4900LR Schematic - Radios_3.5_0218" and "4900LR Schematic - 4.9GHz".
3. The application for the 4.9GHz radio contained antenna specification sheets for the 2.4GHz band. These are being removed from the list of exhibits. Please submit specification sheets for the 4.9GHz antennas if that was intended to be included in the application.
<answer>No antennas for this 4.9GHz application.
4. The RF Exposure information provided (separate exhibit) indicated that the 4.9GHz band will have a maximum 21dBi gain antenna with a 25dBm conducted RF output. This combination will exceed the power limits of 90.1215 and is not supported in other portions of the application. This worst case combination was used to determine the minimum safe MPE distance. Please note that the MPE information in the 4.9GHz test report was calculated using a 0dBi antenna example. The Antenna Installation guidance will be reviewed once it is updated and provided to ensure consistency with the rest of the application.
<answer>pls see revised report of MPE calculation: "PRX9141 MPE Report rev2.pdf"

5. The 4.9GHz test report states compliance for the 5MHz Channel bandwidth setting however the manual's do not include this operational mode in the descriptions (such as power settings and antenna selection).

<answer>pls see revised "06U10518-1C FCC 90Y Report" which has removed 5 MHz nominal bandwidth data.

6. The FCC has indicated (in Q&A in September 2005) that the Authorized Bandwidth is the Channel Bandwidth listed in 90.1215 and that the measured bandwidth may not exceed the authorized channel bandwidth. The 26dB bandwidth measurements of the 5MHz, 10MHz and 20MHz Channel Bandwidth signal is actually greater than the corresponding Channel Bandwidth's. This appears not to meet the FCC requirements, even though the signals meet the Emission Mask L. Please confirm compliance with the current FCC policy.

<answer>

The 99% Bandwidth complies with the Channel Bandwidth requirement.

The 26 dB bandwidth measurements are for reference purposes only. These measurements are neither required nor intended to be compared to any regulatory limits under Part 90Y. These measurements are only included to determine the parameters for other measurements. The 26 dB bandwidth measurements were originally utilized to determine the minimum integration bandwidth for the Maximum Power measurements as specified by the UNII procedures. During the course of testing this device, the FCC issued new guidance that the UNII measurement procedures are under consideration but not presently allowed under Part 90Y. Since the 26 dB bandwidth measurements had already been made, they were subsequently utilized to determine the integration bandwidth for the the Peak Power measurements currently required by this guidance.

7. The Radiated Emissions in the 4.9GHz Test Report are documented as being performed in accordance with ANSI C63.4, where the FCC requires relative measurements for field strength requirements of FCC 2.1053 for Licensed Devices in accordance with EIA/TIA-603. Please explain how the measurements performed meet the requirements of FCC 2.1053.

<answer>pls see revised "06U10518-1C FCC 90Y Report" Section 7.3

8. Please note that the Emission Designators indicated on the Form 731 used the Channel Bandwidth values, when the FCC Policy is to use the 99% Necessary bandwidth measured values, which makes the Emission Designators 4M16W7D, 8M35W7D and 16M7W7D. Please update the Form 731 accordingly.

<answer>Form 731 has been revised.

The items indicated above must be submitted before processing can continue on the above referenced application. Failure to provide the requested information within 30 days of the original e-mail date may result in application dismissal and forfeiture of the filing fee. Also, please note that partial responses increase processing time and should not be submitted. Any questions about the content of this correspondence should be directed to the e-mail address listed below the name of the sender.

Best regards,

Chris Harvey
charvey-tcb@ccsemc.com